

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michael Detmar et al.

Art Unit : 1646

Serial No. : 09/822,682

Examiner : Unknown

Filed : March 30, 2001

Title : THROMBOSPONDIN-2 AND USES THEREOF

Attention: Official Draftsman

Commissioner for Patents

Washington, D.C. 20231

TRANSMITTAL OF FORMAL DRAWINGS

Please substitute the enclosed 7 sheets of formal drawings for the corresponding drawings presently in the application.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

10/23/01

Laurie Lawrence

Louis Myers

Reg. No. 35,965

Reg No. 46,593

Fish & Richardson P.C.

225 Franklin Street

Boston, Massachusetts 02110-2804

Telephone: (617) 542-5070

Facsimile: (617) 542-8906

20334170.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

October 23, 2001

Signature

Maria Klein

Typed or Printed Name of Person Signing Certificate

CAGGAGCTCAGCTGCAGGAGGCAGGATGGTCTGGAGGCTGGTCCTGCTGGCT
CTGTGGGTGTGGCCAGCACGCAAGCTGGTCACCAGGACAAAGACACGACCT
TCGACCTTTTCAGTATCAGCAACATCAACCGCAAGACCATTGGCGCCAAGCA
GTTCCGCGGGCCCCGACCCCGGCGTGCCGGCTTACCGCTTCGTGCGCTTTGACT
ACATCCCACCGGTGAACGCAGATGACCTCAGCAAGATCACCAAGATCATGCG
GCAGAAGGAGGGCTTCTTCCTCACGGCCCAGCTCAAGCAGGACGGCAAGTCC
AGGGGCACGCTGTTGGCTCTGGAGGGCCCCGGTCTCTCCCAGAGGCAGTTCG
AGATCGTCTCCAATGGCCCCGCGGACACGCTGGATCTCACCTACTGGATTGA
CGGCACCCGGCATGTGGTCTCCCTGGAGGACGTCGGCCTGGCTGACTCGCAG
TGGAAGAACGTCACCGTGCAGGTGGCTGGCGAGACCTACAGCTTGACAGTGG
GCTGCGACCTCATAGACAGCTTCGCTCTGGACGAGCCCTTCTACGAGCACCT
GCAGGCGGAAAAGAGCCGGATGTACGTGGCCAAAGGCTCTGCCAGAGAGAG
TCACTTCAGGGGTTTGCTTCAGAACGTCCACCTAGTGTTTGAAAACCTCTGTGG
AAGATATTCTAAGCAAGAAGGGTTGCCAGCAAGGCCAGGGAGCTGAGATCA
ACGCCATCAGTGAGAACACAGAGACGCTGCGCCTGGGTCCGCATGTCACCAC
CGAGTACGTGGGCCCCAGCTCAGAGAGGAGGCCCGAGGTGTGCGAACGCTC
GTGCGAGGAGCTGGGAAACATGGTCCAGGAGCTCTCGGGGCTCCACGTCTCT
GTGAACCAGCCAGCGAGAACCTCAAGAGAGTGTGCAATGATAACCAGTTTC
TCTGGGAGCTCATTGGTGGCCCTCCTAAGACAAGGAACATGTCAGCTTGCTG
GCAGGATGGCCGGTTCTTTGCGGAAAATGAAACGTGGGTGGTGGACAGCTGC
ACCACGTGTACCTGCAAGAAATTTAAAACCATTTGCCACCAAATCACCTGCC
CGCCTGCAACCTGCGCCAGTCCATCCTTTGTGGAAGGCGAATGCTGCCCTTCC
TGCTCCACTCGGTGGACGGTGAGGAGGGCTGGTCTCCGTGGGCAGAGTGGA
CCCAGTGCTCCGTGACGTGTGGCTCTGGGACCCAGCAGAGAGGCCGGTCTTG
TGACGTACCAGCAACACCTGCTTGGGGCCCTCCATCCAGACACGGGCTTGC
AGTCTGAGCAAGTGTGACACCCGCATCCGGCAGGACGGCGGCTGGAGCCACT
GGTCACCTTGGTCTTCATGCTCTGTGACCTGTGGAGTTGGCAATATCACACGC
ATCCGTCTCTGCAACTCCCCAGTGCCCCAGATGGGGGGCAAGAATTGCAAAG
GGAGTGGCCGGGAGACCAAAGCCTGCCAGGGCGCCCCATGCCCAATCGATG
GCCGCTGGAGCCCCTGGTCCCCGTGGTTCGGCCTGCACTGTACCTGTGCCGGT
GGGATCCGGGAGCGCACCCGGGTCTGCAACAGCCCTGAGCCTCAGTACGGAG
GGAAGGCCTGCGTGGGGGATGTGACAGGAGCGTCAGATGTGCAACAAGAGGA
GCTGCCCCGTGGATGGCTGTTTATCCAACCCCTGCTTCCCGGGAGCCCAGTGC
AGCAGCTTCCCCGATGGGTCTTGGTTCATGCGGCTCCTGCCCTGTGGGCTTCTT
GGGCAATGGCACCCACTGTGAGGACCTGGACGAGTGTGCCCTGGTCCCCGAC
ATCTGCTTCTCCACCAGCAAGGTGCCTCGCTGTGTCAACACTCAGCCTGGCTT
CCTGCTGCCCTGCCCGCCCCGATACAGAGGGAACCAGCCCGTCGGGGTC
GGCCTGGAAGCAGCCAAGACGGAAAAGCAAGTGTGTGAGCCCGAAAACCCA
TGCAAGGACAAGACACAACTGCCACAAGCACGCGGAGTGCATCTACCTG
GGCCACTTCAGCGACCCCATGTACAAGTGCAGTGCAGACAGGCTACGCGG
GCGACGGGCTCATCTGCGGGGAGGACTCGGACCTGGACGGCTGGCCCAACCT
CAATCTGGTCTGCGCCACCAACGCCACCTACCACTGCATCAAGGATAACTGC
CCCCATCTGCCAAATTCTGGGCAGGAAGACTTTGACAAGGACGGGATTGGCG
ATGCCTGTGATGATGACGATGACAATGACGGTGTGACCGATGAGAAGGACAA
CTGCCAGCTCCTCTTCAATCCCCGCCAGGCTGACTATGACAAGGATGAGGTT
GGGGACCGCTGTGACAACTGCCCTTACGTGCACAACCCTGCCAGATCGACA

FIG. 1A

CAGACAACAATGGAGAGGGTGACGCCTGCTCCGTGGACATTGATGGGGACG
ATGTCTTCAATGAACGAGACAATTGTCCCTACGTCTACAACACTGACCAGAG
GGACACGGATGGTGACGGTGTGGGGGATCACTGTGACAAC TGCCCCCTGGTG
CACAACCCTGACCAGACCGACGTGGACAATGACCTTGTTGGGGACCA GTGTG
ACAACAACGAGGACATAGATGACGACGGCCACCAGAACAACCAGGACA ACT
GCCCCCTACATCTCCAACGCCAACCAGGCTGACCATGACAGAGACGGCCAGGG
CGACGCCTGTGACCCTGATGATGACAACGATGGCGTCCCCGATGACAGGGAC
AACTGCCGGCTTGTTGTTCAACCCAGACCAGGAGGACTTGGACGGTGATGGAC
GGGGTGATATTTGTAAAGATGATTTTGACAATGACAACATCCCAGATATTGA
TGATGTGTGTCCTGAAAACAATGCCATCAGTGAGACAGACTTCAGGAACTTC
CAGATGGTCCCCCTGGATCCCCAAAGGGACCACCCAAATTGATCCCCAACTGGG
TCATTCGCCATCAAGGCAAGGAGCTGGTTCAGACAGCCA ACTCGGACCCCCGG
CATCGCTGTAGGTTTTGACGAGTTTGGGTCTGTGGACTTCAGTGGCACATTCT
ACGTAAACACTGACCGGGACGACGACTATGCCGGCTTCGTCTTTGGTTACCA
GTCAAGCAGCCGCTTCTATGTGGTGATGTGGAAGCAGGTGACGCAGACCTAC
TGGGAGGACCAGCCCACGCGGGCCTATGGCTACTCCGGCGTGTCCCTCAAGG
TGGTGA ACTCCACCACGGGGACGGGCGAGCACCTGAGGAACGCGCTGTGGC
ACACGGGGAACACGCCGGGGCAGGTGCGAACCTTATGGCACGACCCCAGGA
ACATTGGCTGGAAGGACTACACGGCCTATAGGTGGCACCTGACTCACAGGCC
CAAGACCGGCTACATCAGAGTCTTAGTG CATGAAGGAAAACAGGTCATGGCA
GACTCAGGACCTATCTATGACCAAACCTACGCTGGCGGGCGGCTGGGTCTAT
TTGTCTTCTCTCAAGAAATGGTCTATTTCTCAGACCTCAAGTACGAATGCAGA
GATATTTAAACAAGATTTGCTGCATTTCCGGCAATGCCCTGTGCATGCCATGG
TCCCTAGA

FIG. 1B

MVWRLVLLALWVWPSTQAGHQDKDTTFDLFSISNINRKTIGAKQFRGPDGPVPA
YRFVRFDYIPPVNADDLSKITKIMRQKEGFFLTAQLKQDGKSRGTLLALEGPGLS
QRQFEIVSNGPADTLDLTYWIDGTRHVVSLQVGLADSQWKNVTVQVAGETYS
LHVGCDLIDSFALDEPFYHLQAEKSRMYVAKGSARESHFRGLLQNVHLVFENS
VEDILSKKGCQQGQGAENAISENTETLRLGPHVTTEYVGPSSERRPEVCERSCEE
LGNMVQELSGHLVLVNQPSNENLKRVSNDNQFLWELIGGPPKTRNMSACWQDGR
FFAENETWVVDSCCTTCTCKKFTICHQITCPPATCASPSFVEGECCPSCLHSVDGE
EGWSPWAEWTQCSVTCGSGTQQRGRSCDVTSNTCLGPSIQTRACSLSKCDTRIR
QDGGWSHWSPWSSCSVTCGVGNITRIRLCNSPVPQMGGKNCKGSGRETKACQG
APCPIDGRWSPWSPWSACTVTCAGGIRERTRVCNSPEPQYGGKACVGDVQERQ
MCNKRSCPVDGCLSNPCFPGAQCSSFDPGWSWCGSCPVGFLGNGTHCEDLDECA
LVPDICFSTSKVPRCVNTQPGFHCCLPCPPRYRGNQPVGVGLEAAKTEKQVCEPEN
PCKDKTHNCHKHAECIYLGHFSDPMYKCECQTGYAGDGLICGEDSDLDGWPNL
NLVCATNATYHCIDNCPHLPNSGQEDFDKDGGDACDDDDNDGVTDEKDNC
QLLFNPRQADYDKDEVGDRCDNCPYVHNPAQIDTDNNGEGDACSVDIDGDDVF
NERDNCPYVYNTDQRDQTDGQVGDHCDNCPVHNPDQTDVDNDLVGDQCDN
NEDIDDDGHQNNQDNCPYISNANQADHNRDQGDACDPDDNDGVPDDRDN
RLVFNPQEDLDGDRGDICKDDFDNDNIPDIDDVCPENNAISETDFRNFQMVPL
DPKGTTQIDPNWVIRHQGKELVQTANSDPGIAVGFDEFSGVDFSGTFYVNTDRD
DDYAGFVFGYQSSSRFYVVMWKQVTQTYWEDQPTRAYGYSGVSLKVVNSTTG
TGEHLRNALWHTGNTPGQVRTLWHDPRNIGWKDYTAIRWHLTHRPKTGYIRV
LVHEGKQVMADSGPIYDQTYAGGRLGLFVFSQEMVYFSDLKYECRDI

FIG. 2

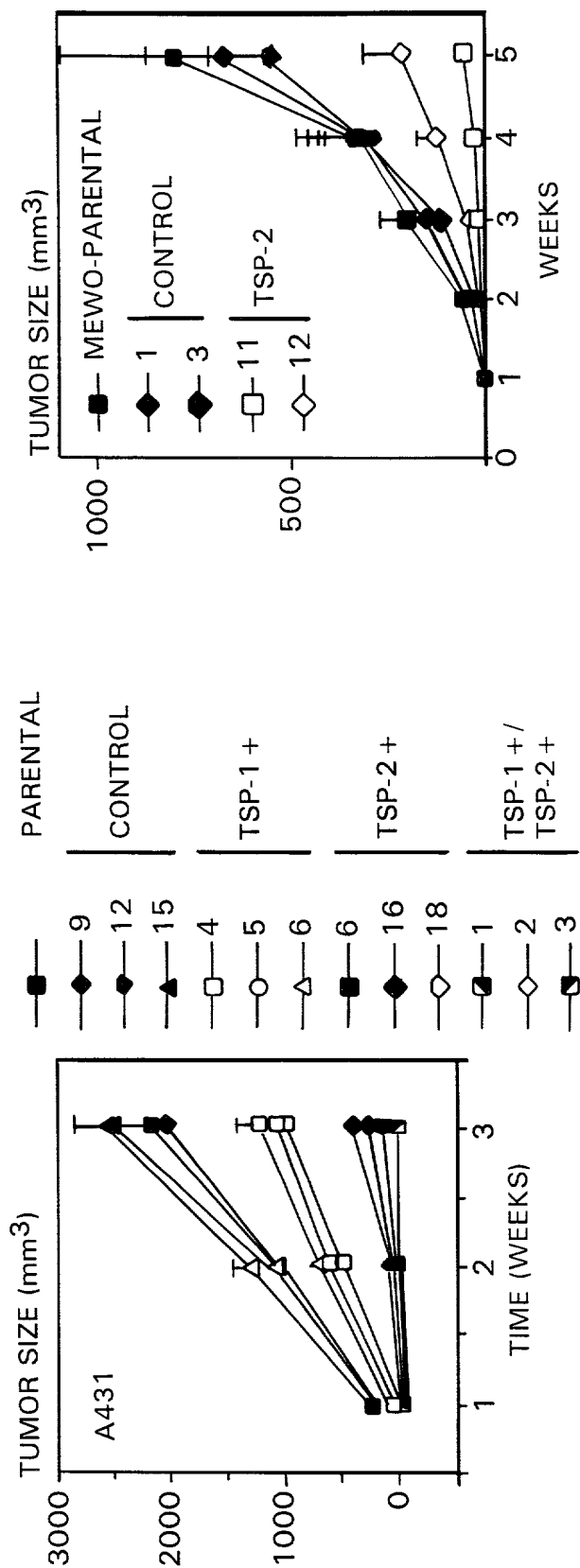


FIG. 3

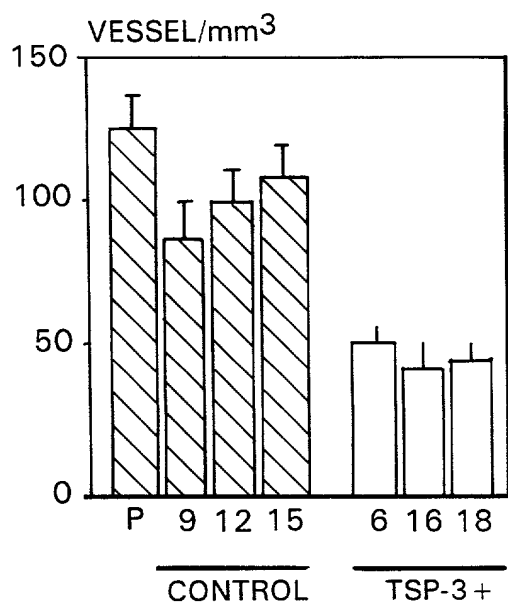


FIG. 4A

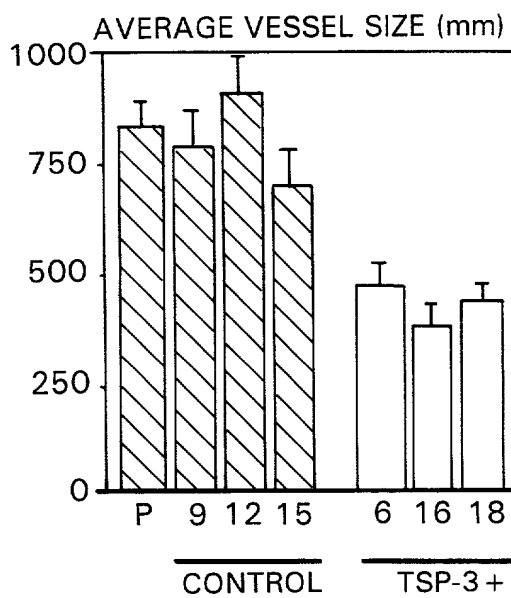


FIG. 4B

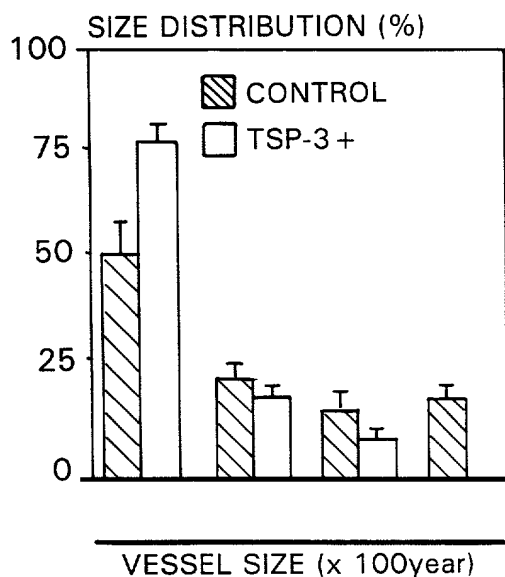


FIG. 4C

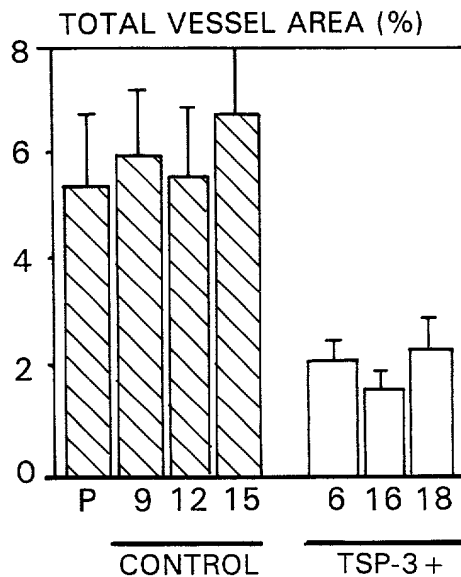


FIG. 4D

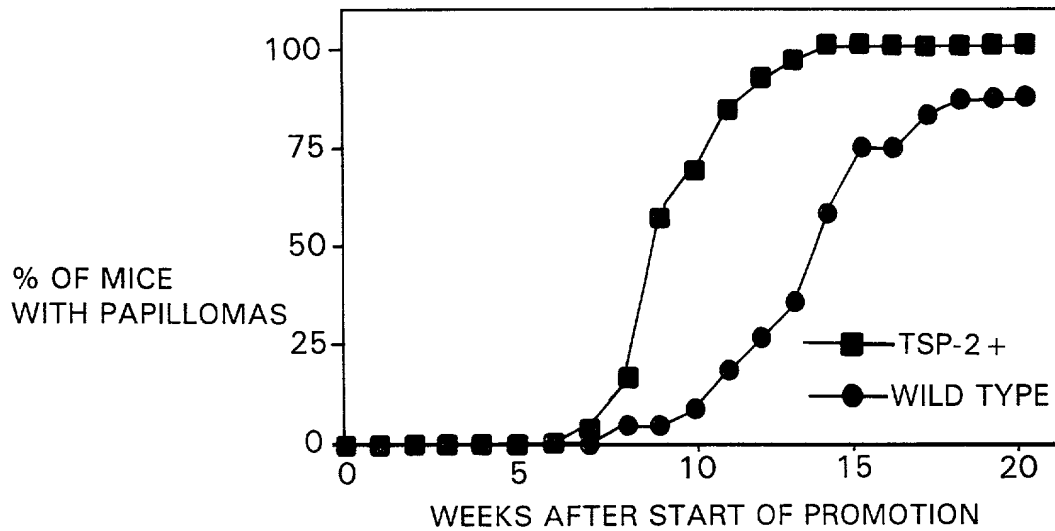


FIG. 5A

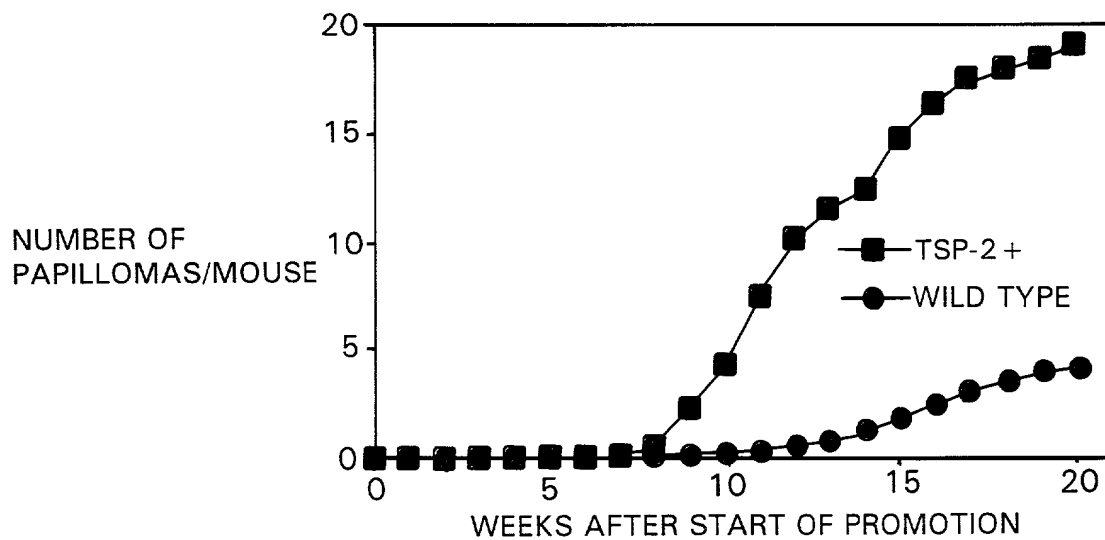


FIG. 5B

0982682.010902

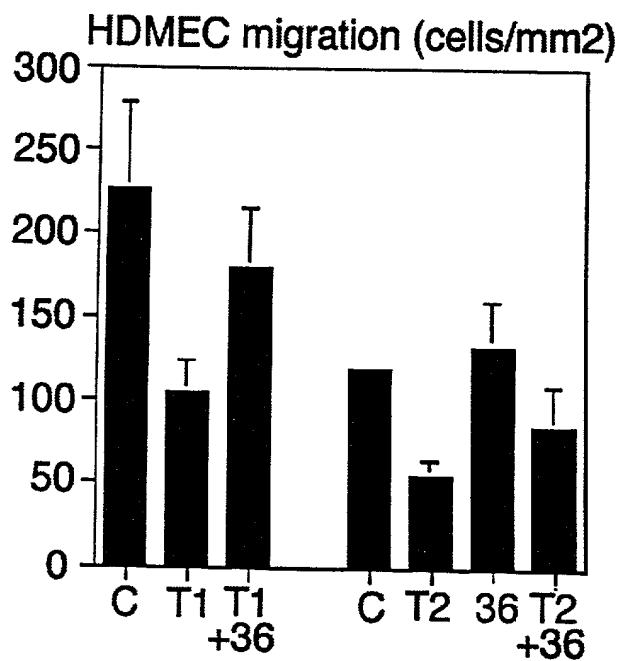


FIG. 6

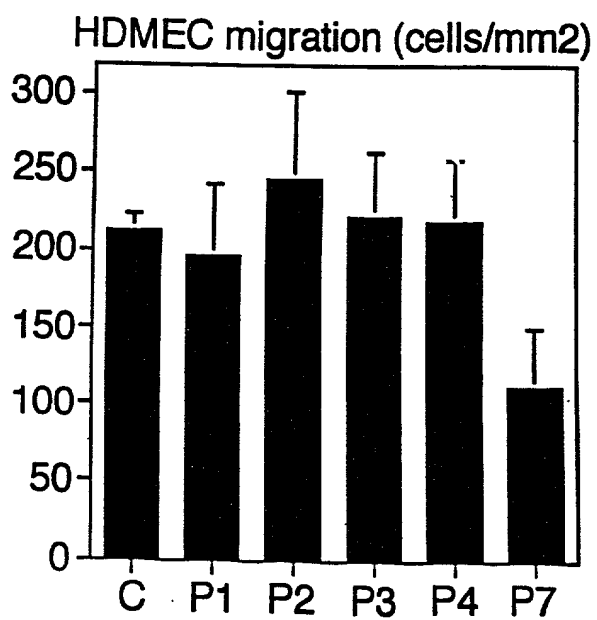


FIG. 7